

Intergenerational Transfers in Data from the Health and Retirement Study*

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Abstract

We examine 1992-2008 HRS data on inheritances and inter vivos gifts. We uncover a problem with the data: a household's financial respondent often seems to understate transfers from his/her in-laws. Nevertheless, other aspects of the data seem very useful. In particular, we can shift our emphasis to the distribution of inheritances for couples, conditional on a positive transfer from the respondent's in-laws. About 30-40 percent of households eventually inherit. Our analysis suggests that inheritances reflect a mixture of intentional and accidental bequests, with the latter twice as prevalent.

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Private-sector intergenerational transfers are potentially significant. For example, estate creation may be an important motive for saving, especially among high-income households; intergenerational transfers may augment, and sustain, inequality between family lines; and, bequests (and gifts) may connect generations in ways that provide insurance. This paper seeks to study the intergenerational-transfer data resources of the Health and Retirement Study (HRS) data. We are particularly interested in transfers to married couples, the modal recipient-household type. This paper constructs a simple model of the distribution of inheritances and uses it to analyze and assess the HRS data. Our goals are to gain an understanding of underlying parental behavior and of the HRS data's strengths and weaknesses, including appropriate avenues for more detailed analysis in the future.

The HRS provides a large sample, an extensive set of questions on transfers, and a very rich set of covariates. The HRS utilizes a combination of retrospective questions on past transfers and wave-to-wave questions on receipts over current two-year intervals. In contrast to many surveys, the HRS asks households about the sources of their major gifts and inheritances. The latter detailed information provides the foundation of this paper's analysis.

As is common, the HRS relies upon a single respondent, the "financial respondent," to provide household data for a couple. Using our model in concert with findings from the existing literature about the equality of division of parental estates, we conclude that HRS financial respondents tend to under-report transfers from their parents-in-law. The under-reporting seems severe, and we propose utilizing financial respondent reports of transfers from their own side of the family only. We argue that this can raise estimated average transfer amounts 30-100 percent. (And, it may have implications for other data sources.)

We also show that conditional data on spousal inheritances — conditional on a recorded positive amount — may be valuable despite shortcomings of the unconditional figures. A strand of the existing literature distinguishes intentional from accidental intergenerational transfers, and we suggest that HRS data provides some support for a mixture of the two — and particular support for the accidental model.

We have data on *inter vivos* gifts (from the Wealth Section of the HRS) as well as inheritances. We show that it tends to accent gifts at relatively advanced ages. The prevalence and magnitude of these transfers seems important. However, we argue that the survey's methodology may inadvertently lead to a neglect of early-in-life gifts. Analysis suggests that the distribution of gifts resembles that of inheritances. On the one hand, this is as one would expect: there is no reason that reporting problems would be confined to inheritances. On the other hand, it is somewhat puzzling that gifts, which must nearly always be intentional, would tend to resemble inheritances, which may be mainly accidental.

The organization of this paper is as follows. Section 1 reviews the existing literature. Section 2 summarizes characteristics of the HRS intergenerational transfer data. Section 3

examines agent reporting errors. Section 4 considers evidence in the data for assortative mating. Section 5 briefly examines HRS data on *inter vivos* gifts. Section 6 attempts to assess what we can say about the relative frequency of intentional versus accidental private intergenerational transfers. Section 7 concludes.

1. Existing Literature

This section briefly reviews the theoretical and empirical literatures on private intergenerational transfers.

This paper focuses on two major models of private intergenerational transfers. The first we might call the “intentional-bequest model.” In the most widely studied variant (Becker [1974], Barro [1974]), the “altruistic model,” parents care about their own lifetime utility, say, $u(c^P)$, with c^P = parent household lifetime consumption, and their grown children’s utility, say, in the case of a single child, $u(c^c)$, with c^c = child household lifetime consumption. Then the parent household’s total utility might be $u(c^P) + \omega \cdot u(c^c)$, where ω is the weight the parents attach to the child’s lifetime utility relative to their own. Presumably $\omega \in [0, 1]$. The higher ω is, the stronger the parents’ altruism. This model has been used to study saving (Kotlikoff and Summers [1981], Kotlikoff [1988], Modigliani [1988], Laitner [1992]), fiscal policy (Barro [1974]), human capital accumulation (Becker [1980], Loury [1981]), and inequality (Laitner [2002]).

One important characteristic of altruistic bequests is that they may be narrowly concentrated. If children earn more than their parents — a frequent occurrence in a progressive economy — and if institutions require that bequests be non-negative, many altruistic bequests will be zero. Only parents well-off relative to their children will want to make positive transfers. The threshold for a positive bequest will be higher if ω (see above) is lower.

Another large literature studies incomplete annuity markets, which can give rise to “accidental bequests” (e.g., Davies [1981], Abel [1985], Kotlikoff and Spivak [1981], and others). Friedman and Warshawsky [1990], for example, propose a formulation in which a parents would like to set aside part of their net worth for a bequest to their children and annuitize the rest for their own use in retirement. Annuity prices tend to be unattractive, however, because of adverse selection (i.e., households most inclined to purchase annuities are those which expect to live an unusually long time). Thus, parental concerns about leaving an estate make them reluctant to participate too extensively in the annuities market. With incomplete annuitization, a parental estate will vary with time of death: if the parents die young, it will be large; if they live a very long time, it may disappear entirely.

Again, accidental bequests need not be pervasive. Social Security is an annuity, as are some pension payouts. If institutions prevent negative bequests, parents who enjoy exceptional longevity may exhaust all of their unannuitized resources and die with a zero bequest.

There have been a number of empirical studies. One strand of literature focuses on heterogeneity of bequests within family lines. The altruistic model would seem to imply that parents should direct larger bequests to their least prosperous children. Yet, evidence suggests that parents actually divide their estates quite equally in a substantial majority of cases (Menchik [1980, 1988], Walker [2005], Wilhem [1996], Kessler and Masson [1989]).

A second strand of literature compares private transfers across the parent-child pairs from different family lines. These studies have heavy data requirements. Resulting tests for altruistic behavior depend upon coefficient sign patterns and/or quantitative parameter constraints. Support for the altruistic, intentional-bequest model is mixed. Laitner and Ohlsson [2001] and Laitner and Juster [1996], for instance, find agreement with the sign patterns that the model predicts. However, quantitative parameter constraints often fail by a wide margin (e.g., Altonji et al [1997], Laitner and Ohlsson [2001]). Other evidence seems at variance with the altruistic model as well (e.g., Altonji et al [1992], Hurd [1987]).

Family-line transfers can take the form of *inter vivos* gifts as well as bequests. These seem important in practice (e.g., Gale and Scholz [1994]). Because such transfers seem unambiguously intentional, their existence tends to support the altruistic model. Some empirical evidence suggests that parents may divide their gifts less equally than their bequests (Dunn and Phillips [1997], McGarry and Schoeni [1995], McGarry [1999]). Again, however, data requirements are so severe that many questions remain.

Comparing the behavior of households with and without children, Hurd [1989] finds support for the accidental model. In general, with fewer dramatic implications, the accidental model seems harder to defend or dispute than the altruistic specification.

2. HRS Intergenerational Transfer Data

This section examines intergenerational transfer data from wealth sections of the main HRS survey. The HRS began in 1992 with respondents aged 51-61 (though their spouses, of course, could be outside that range). The 1992 HRS survey has an extensive battery of questions, separately asking households about inheritances, trusts, life insurance settlements, and gifts received. The questions refer to transfer receipts over the respondent's lifetime to date. For each type of transfer, respondents are asked to list the amount, year, and source (i.e., parents, parents in law, siblings, etc.) for the three largest sums.¹

Subsequent survey waves (i.e., 1994, 1996, etc.) use an abbreviated sequence of questions, asking about transfers received since the last interview. The questions no longer distinguish ordinary inheritances from transferred trusts. And, after 1992, only for inheritances are respondents asked the source of the transfer.

This section discusses the general characteristics of the transfer data. A problem emerges regarding the sources of inheritances, and it is the focus of Section 3.

Transfer Data. Table 2.1 presents summary statistics for 1992 HRS. This paper concentrates on data from the "Net Worth" section of the survey ("Net Worth other than Housing" in 1992, "net Worth" in 1994, "Assets and Income" in 1996, etc.).

Table 2.1's top panel presents survey amounts in current dollars. The middle converts all sums to 2005 dollars. The bottom panel accumulates all 2005-dollar sums to 2005

¹ Additional details are that respondents were offered the chance to aggregate transfers beyond the 3 largest into an "other" category in each of the cases; that gift and insurance settlement amounts were to be \$10,000 or more only, though no such restriction was put on inheritances and trusts; and, that we impute missing dates, using the average date for the category in question. The latter imputations affect about 20 percent of the cases within each category.

present values, using a real interest rate $r = 0.03$, i.e., 3%/year.² Together the two corrections raise magnitudes by a factor slightly above 4. We can see that a fraction $1584/7702 \approx 1/5$ of 1992 households record the receipt of at least one transfer. Among 1992 HRS households, the average amount received is about \$10,000 in the top panel; in 2005 present value terms, it is about \$46,000. Limiting attention to households with a positive transfer, the average amount in panel 3 is about \$225,000.

In each case, the survey asks whether the respondent has received a given type of transfer, and, if the respondent replies “yes,” the survey asks the amount. If the amount is missing, Table 2.1 records a “censored observation.” A censored observation can have either a 0 or a positive amount. For example, if a household reports 1 or more inheritances yet all its inheritance amounts are missing, its entry for the data of Table 2.1 is 0 but that entry is flagged as “censored.” If, on the other hand, the respondent provides an amount, say, \$10,000, for his/her largest inheritance but records a second inheritance without providing its amount, his/her Table 2.1 inheritance would be positive, namely, \$10,000, yet the observation would also be flagged as censored. Table 2.1 shows that about 20 percent of households have censored observations. This section devotes no special attention to the latter — in part because the fraction of censored observations seems fairly constant across all subsets of data that we consider.

Table 2.2 provides weighted outcomes, using 1992 HRS household weights. Total transfers are roughly 15 percent larger — principally because a higher fraction of the weighted sample has a positive transfer amount. The remainder of this analysis uses weighted data unless otherwise noted.

Detailed comments about the data are as follows.

Life Insurance. Benefactors can transfer resources by making heirs the beneficiaries of their life insurance policies. In this, as in all categories, we exclude amounts from children and spouses. In the case of insurance settlements, the last group is large. There are 391 life-insurance settlements recorded, but 321 do not pass our criteria. HRS questions after 1992 no longer refer to “life insurance” (rather to “insurance” in general) and, most important, do not ask the beneficiary’s relationship to the heir. Thus, we lack usable data on insurance settlements after 1992. Fortunately, Table 2.1 shows that only 2-3% of 1992 total transfers come from this source.

Trusts. The 1992 HRS enables us to measure assets passed in trusts. Table 2.3 provides details. Transfers via trusts are rare, only about 6 percent as frequent as regular inheritances. However, they are 3 times as large on average. Thus, they constitute 15-20 percent of total inheritance amounts. HRS waves after 1992 ask respondents for the sum of regular inheritances and transferred trust accounts — and the two cannot be separated.

Inter Vivos Gifts. The mean *inter vivos* gift in Table 2.1 is almost as large as the mean inheritance: in the last part of Table 2.1, the mean inheritance (including trusts) is \$220,000, while the mean gift is \$205,000. Gifts are about one-third as frequent; so, the mean 1992 total transfer is roughly 3 parts inheritance (and/or trust) and 1 part gift. The HRS wealth section in the survey waves 1994 and 1996 stopped asking about gifts — specifi-

² The literature assumes real interest rates of 0.00-0.08. Readers interested in the lowest can, of course, stop at the middle panel of Table 2.1.

cally telling respondents not to include them. Beginning in 1998, “gifts” re-emerge in the wealth-section list of questions. However, the frequency gifts reported 1998 and beyond in the wealth section is very low.³

A surprise emerges as we move down Table 2.1: the ratio of the average size of inheritances and gifts is about the same in all three panels. We might expect gifts to occur mainly in the early adulthood of recipients — as parents seek to alleviate children’s liquidity constraints, helping them to make the down payment on their first home, etc. Inheritances, in contrast, presumably flow mainly at the death of the second parent, which tends to occur in the child’s late middle age. Table 2.1, however, contradicts this scenario. As we make price and present value corrections, the ratio of gift to inheritance amounts remains the same. If gifts occurred earlier in life than inheritances, their upward corrections as we move down Table 2.1 would be larger.

Table 2.4 investigates the latter point in more detail. The table shows that frequencies of inheritance and gift transfer receipt over different decades are very similar for the 1992 HRS cohort.⁴

We can conjecture various explanations for this outcome — possibly some of the largest gifts are assistance for grandchildren’s higher education; possibly some of the largest transfers that parents make consist of tangible property (e.g., a vacation home) that parents do not want the responsibility of maintaining in their retirement; or, perhaps some gifts are made, as a tax lawyer would say, “in contemplation of death.”

It also seems possible that many gifts are omitted. The survey asks for major transfers, with major meaning large in the sense of the top panel of Table 2.1. Transfers occurring when a child graduated from school might be small in absolute size — and therefore excluded from reported “gifts” — despite being large in 2005 dollars and present value. For example, \$10,000 received in 1982 (the average date for receiving a gift in the survey) is \$36,800 in present value by 2005, with 2005 dollars. However, \$10,000 received in 1955, would become \$261,500 in panel 3 of Table 2.1. Although analysis tends to focus on the bottom panel of Table 2.1, respondents are asked to prioritize their survey time on the basis of the top panel.⁵

A final surprise is the lack of overlap in gift and inheritance receipts. For example, in the last four rows of Table 2.1 the sum of recipients of inheritances, gifts, and life insurance settlements roughly equals the number of households receiving any transfer at all, indicating that the receiving groups are virtually disjoint. The literature suggests that

³ Other sections of the HRS ask about transfers of money and time within the last two years. Future work will seek to integrate these with the wealth-section data.

⁴ Notice that recipients may report more than one inheritance, and more than one gift. Thus, the total numbers of transfers in Table 2.4 need not correspond to the total number of recipient households in Table 2.1.

⁵ Yet another possibility is that respondents sometimes categorize an inheritance — a transfer from a decedent — as a “gift.” However, we are skeptical that this is an important problem. The 1992 HRS asks about trusts and inheritances; then it asks about gifts. The gift question is: “Excluding inheritances and trusts, have you ever received money or assets totaling \$10,000 or more from a relative?” The survey also includes a definition: “[This] could be in the form of support, a gift, or a loan.”

parents intending to make a bequest might transfer part of the sum early if their children were liquidity constrained. That might lead us to expect that many households that inherit also have gifts — but this is not what Table 2.1 shows.

Transfers Through 2008. Table 2.5 accumulates transfers from the 1992 HRS cohort over all survey waves through 2008.

Benefactors. One member of each HRS couple is designated the financial respondent, and this individual answers survey questions in the HRS wealth section on behalf of his/her household. On the basis of the existing literature, we expect a couple’s transfer (at least for transfers at death) to be split quite equally among all of its children. The literature provides little evidence that male and female children, for instance, receive different treatment. With this in mind, we expect numbers of transfers from parents and parents-in-law to be roughly equal in the HRS data. Table 2.6, however, does not bear this out.

The top panel of Table 2.6 shows that transfers “from parents” are 3-5 times as prevalent as those “from parents-in-law.” Panels 2 and 4 focus on couples. The inequality of transfers from parents and parents-in-law is somewhat attenuated but still evident — transfers from parents are 2.0-3.5 times as prevalent as those from parents-in-law.

The discrepancy between Table’s 2.6 benefactor ratios and the existing literature is the focus of Section 3.

Section 3: Data Quality

The inequality of parents and parent-in-laws in Table 2.6 leads us to suspect that inheritances from non-financial respondents are understated in the HRS. We now examine this issue in detail. We investigate what might have gone wrong through a series of hypotheses, examining the evidence for each.

Our initial hypotheses are:

(H1. Misclassification): HRS respondents sometimes name “parents” as their benefactor without going further down the survey questionnaire’s list of options to see that “parents-in-law” is another choice.

(H2. Respondent Fatigue): Although the survey invites respondents to describe many transfers, most respondents only make the effort to record a small number (c.f., Table 2.6). Respondents who choose to mention any transfers at all tend to focus on those with which they have the greatest familiarity, namely, transfers from their side of the family.

Theory. We start with a simple model. The existing empirical literature (see above) suggests that parents divide their estates equally among their children. In particular, male and female children are treated alike, as are married and single children. In the context of our model, these findings can establish what we expect to observe, providing a basis for evaluating the data’s quality.

Begin with two examples. In the first, think of an economy in which parents always have two children, a male and a female. There are 3 types of parents, A, B, and C. The types are equally prevalent. Suppose type A desires to leave a bequest x to each of its children, but types B and C want no bequest at all. Suppose N_2 children of each sex choose to marry, and N_1 choose to remain single. Let the marital choice be random. Indexed by parent types, the support of the distribution of next-generation couples is

$\{AA, AB, AC, BA, BB, BC, CA, CB, CC\}$.

Suppose mating is random so that all 9 mating patterns are equally prevalent. Let there be N men and N women per cohort. Then

$$N = N_1 + N_2.$$

In this framework, the average inheritance per single is

$$\frac{x}{3}.$$

For couples, $N_2/9$ are type AA and have inheritance $2 \cdot x$; $4 \cdot N_2/9$ are AB, AC, BA, or CA, having inheritance x ; and, the remaining $4 \cdot N_2/9$ have inheritance 0. The average inheritance for next-generation couples is, therefore,

$$\frac{2 \cdot x \cdot \frac{N_2}{9} + x \cdot \frac{4 \cdot N_2}{9}}{N_2} = \frac{6}{9} \cdot x = \frac{2}{3} \cdot x.$$

In other words, the mean inheritance per couple is twice the mean for singles. Intuitively, couples have 2 sets of potential benefactors whereas singles have only 1; hence, couples, as a group, inherit twice as much.

As a second example, change only the mating pattern. Suppose now that mating is rigorously assortative — so that the only couple types in the next generation are

AA, BB, CC .

Given the underlying distribution of parent types, each of the three couple types is equally likely. Singles are unaffected and have the same average inheritance as before. An AA couple inherits $2 \cdot x$; a BB or CC inherits 0. So, the average inheritance per couples is

$$\frac{1}{3} \cdot 2 \cdot x + \frac{2}{3} \cdot 0 = \frac{2}{3} \cdot x.$$

Again, the average inheritance for a couple turns out to be twice the average for a single.

A simple model shows that the results above are quite general. Suppose that parent types are indexed with $i \in \{0, 1, \dots, I\}$ and that $p(i)$ is the population share of type i . Suppose type i parents bequeath $x(i)$ to each child. Use the indexing convention

$$\begin{aligned} x(i) &= 0 & \text{if } i = 0, \\ x(i) &> 0 & \text{if } i > 0. \end{aligned}$$

Let $I \ll N$. Provided the marital status “single” emerges randomly, the average inheritance per single in the next generation is

$$m \equiv \sum_i p(i) \cdot x(i). \tag{1}$$

Couples are slightly more complicated. Nevertheless, we have

Proposition 1: *Whatever the nature of mating patterns, the average inheritance per couple is $m^c = 2 \cdot m$.*

Proof: Consider the universe of new couples. As a group, the men who marry inherit

$$N_2 \cdot \sum_i p(i) \cdot x(i).$$

The total inheritance of the women who marry is the same. Thus, the average inheritance per couple is

$$m^c = \frac{N_2 \cdot \sum_i p(i) \cdot x(i) + N_2 \cdot \sum_i p(i) \cdot x(i)}{N_2} = 2 \cdot \sum_i p(i) \cdot x(i) = 2 \cdot m. \quad \blacksquare$$

In fact, the same argument provides more detailed implications:

Corollary 1: *Whatever the nature of mating patterns, male spouses, on average, inherit m , and female spouses, on average, inherit m .*

Proof: Looking at the preceding proof, the average inheritance per male spouse is

$$\frac{N_2 \cdot \sum_i p(i) \cdot x(i)}{N_2} = \sum_i p(i) \cdot x(i) = m.$$

The same is true for female spouses. \blacksquare

Turn next to the question of who inherits a positive amount. In the case of singles, the number is

$$N_1 \cdot \sum_{i \neq 0} p(i).$$

Thus, the fraction of singles with a positive inheritance is f , where

$$f \equiv \frac{N_1 \cdot \sum_{i \neq 0} p(i)}{N_1} = \sum_{i \neq 0} p(i). \quad (2)$$

For couples, we have

Proposition 2: *Whatever the nature of mating patterns, the fraction of married individuals who inherit, $f^{Mar\ Inds}$, is $2 \cdot f$.*

Proof: For male spouses, the total number inheriting is $N_2 \cdot \sum_{i \neq 0} p(i)$. So, the fraction inheriting is

$$\frac{N_2 \cdot \sum_{i \neq 0} p(i)}{N_2} = \sum_{i \neq 0} p(i) = f.$$

The same argument applies to female spouses. So,

$$f^{Mar\ Inds} = 2 \cdot f. \quad \blacksquare$$

Proposition 2 provides a way of evaluating (H1) directly. Its proof, however, also suggests a way of evaluating (H2).

Corollary 2: *Whatever the nature of mating patterns, the fraction of male spouses with positive inheritances is $f = \sum_{i \neq 0} p(i)$, and the fraction of female spouses, and singles, with positive inheritances is the same.*

Proof: See the proof of Proposition 2. \blacksquare

Digressing, note that neither Proposition 2 nor Corollary 2 can predict what fraction of couples will have positive inheritances. The latter depends upon mating patterns. If mating is purely assortative, Corollary 2 implies that the fraction of couples inheriting will be f ; with random mating, the fraction of couples who inherit a positive amount will be larger.

Evidence from the Data. Our model is simple and mechanical. Nevertheless, Propositions 1-2 and Corollaries 1-2 show that, given the existing literature’s evidence that parents tend to divide their estates equally, the model delivers a set of testable implications. Using these implications, we now examine the consistency of (H1)-(H2) with HRS data.

We treat male spouses as synonymous with financial respondents for couples, female spouses as non-financial respondents from couples, and singles as never married singles. We use a sample of couples and another of never married singles. To open the possibility of taking advantage of the more complete data in 1992, we consider special samples of couples with all four parents dead by 1992, and singles with both parents dead by 1992. To evaluate the consequences of stopping in 1992, we also extend our transfer accumulations to 2008 — capturing residual inheritances. A third sample utilizes all 1992 couples and all 1992 never married singles, following these samples until 2008, by which time presumably many of their lifetime inheritances have occurred.

Tables 3.1 and 3.3 present tests of the implications of Propositions 1-2. In both tables, we include transfers received from parents, parents-in-law, and “others.” In the first case, we compare unconditional mean inheritance/trust amounts for couples and never-married singles. We test $m^{Couple} = 2 \cdot m^{Single}$, where m^{Couple} is the average receipt amount per couple and m^{Single} is the same for never-married singles. In the second, we use frequency data, testing $f^{Mar\ Inds} = 2 \cdot f^{Single}$, where $f^{Mar\ Inds}$ is the combined frequency of transfer receipt for all married individuals, and f^{Single} is the receipt frequency for never-married singles. If hypothesis (H1) is correct, neither test should reject.

In fact, all of the T-tests in Table 3.1 reject at the 5 percent significance level — although none at the 1 percent level. The tests in the table use symmetric confidence intervals. In evaluating (H1), however, our attention focuses on negative values of $m^{Couple} - 2 \cdot m^{Single}$. The critical value for a 1 percent one-tailed test is 2.33.⁶ In that case, the first and third panels of Table 2.1 would reject at the 1 percent level.

All of the tests in Table 3.3 reject at the 1 percent significance level, even with symmetric confidence intervals.

⁶ Given fairly large samples, we obtain critical values from the normal distribution.

We conclude that we should reject (H1). In other words, we seem to have more than a mislabeling problem with the spousal transfer data.

Tables 3.2 and 3.4 turn to Corollaries 1-2. We expect sharper results when we consider individual spouses instead of couples. That is what we find. In every panel of Table 3.2, we accept the equality of inheritance amounts for financial respondents in couples and never-married singles. But, we reject equality for spouses and singles, and for the financial respondent in a couple and his/her spouse, at the 1 percent significance level.⁷ This provides more evidence against hypothesis (H1). And, it supports (H2).

Table 3.4 repeats the tests for frequency data. The rejections seem unambiguous.

Tables 3.1 and 3.3 have the advantage of being able to use transfer receipts from parents and “others.” We must exclude the last from Tables 3.2 and 3.4.⁸ Transfers from “others” account for 10-20 percent of mean amounts. The comprehensive transfers in the top panel of Table 3.1, for example, are \$59,611 and \$68,219 for couples and singles, respectively. If we exclude transfers from “others,” the figures drop to \$52,971 and \$58,776. We should note as well that our theoretical discussion, strictly speaking, applies only to transfers from parents (which would favor the analysis of Tables 3.2 and 3.4). In any case, Tables 3.1-3.4 are consistent in their test results despite different treatments of inheritances from “others.”

Tables 3.3-3.4 have the advantage of sidestepping problems with censored observations. Table 2.1 notes that a nontrivial number of transfer amounts are missing in the data. Our frequency analysis records all transfers, including those with missing amounts; hence, errors from censoring do not arise. This seems a good reason to prefer Tables 3.3-3.4.

Finally, note that we use weighted data. This seems to have a particularly large effect on figures for never-married singles, where the sample sizes are small. For example, in the top panel of Table 3.1, the unweighted means are \$54,609 and \$47,140, and the T test changes to *Accept*** with the unweighted data. Amounts in the top panel of Table 3.2 change to \$36,208, \$13,030, and \$39,985. While the first test outcome remains the same, the second changes to *Reject**/Accept****. However, the third outcome, with a T-statistic of 3.22, remains *Reject****. The top panels in Tables 3.3-3.4 change to 0.2808 and 0.2246, and 0.2160, 0.0720, and 0.1818, respectively, with all test outcomes unchanged. This paper prefers the weighted data.

In sum, the evidence against (H1) seems decisive. On the other hand, (H2) seems plausible in terms of average amounts and frequencies, and tests do not reject it.

⁷ We develop the means and standard errors in the tables from OLS regressions. The estimated means for couples, or individuals within couples, and singles are independent. In the case of financial respondents and their spouses, we run a seemingly unrelated regression (SUR) to find the covariance for the means — needed, for instance, for the T test of $m^{Fin\ Resp} - m^{Spouse}$. (The estimated means in the SUR regression are the same as those from OLS.)

⁸ All survey waves distinguish transfers from parents, parents-in-law, spouse/ex spouse, and children. The 1992 survey wave also distinguishes transfers from respondent siblings and spouse’s siblings — but later waves often do not. None of the survey waves distinguish transfers from respondent grandparent transfers versus spouse’s grandparents. Later waves, in fact, do not even list grandparent transfers separately.

Thus, the spousal transfer data seems to have an excess of zeros. As a consequence, in determining the mean transfer per couples, it seems desirable to average the mean transfer of singles and financial respondents within couples, or to simply double the amounts for financial respondents within couples — disregarding data on financial-respondent spouses in all cases. This will tend to make couples’ transfer receipts 33-100 percent larger, on average. For micro analysis, one approach would be to develop a theory of transfer receipt *per spouse* within couples — and to rely exclusively on data pertaining to financial respondents.

Section 4: Assortative Mating

The distribution of non-financial respondent inheritances in the data seems to have too many zeros. However, we now consider the possibility that positive amounts are accurate in spite of this and that they represent a random sample (conditional on a positive amount). Specifically, we consider the following hypothesis:

(H3. Conditional Accuracy.) Although financial respondents may tend to overlook some transfers from their parents-in-law, the spousal transfers they do report have accurate amounts and constitute a random sample from the spousal distribution.

Conditional Amounts. Consider the conditional distribution of non-financial-respondent transfer receipts.

Under (H3), the mean for non-financial-respondents, conditional on a positive amount, call it $m^{*Spouses}$, should equal the conditional mean for financial respondents, say, $m^{*Fin Resp}$, and should equal the same for singles, $m^{*Singles}$. For all 3 groups, the probability distribution conditional on a positive inheritance is

$$p^*(i) \equiv p(i | i \neq 0) = \frac{p(i)}{1 - p(0)} \quad \text{all } i = 1, 2, \dots, I. \quad (3)$$

So, the conditional mean is

$$m^* = \sum_{i \neq 0} p^*(i) \cdot x(i). \quad (4)$$

We have

Proposition 3: *Whatever the nature of mating patterns, given (H3), financial respondents, non-financial respondents, and never married singles each have the same conditional mean inheritance, namely, m^* .*

Proof: In each case, the conditional probability of a positive inheritance i is $p^*(i)$. So, the conditional mean is m^* . ■

Evidence. Table 4.1 presents evidence.⁹ Table 4.1 shows that we can reject (H3) at the 5 percent level in only one case, and never at the 1 percent level. The one rejection involves

⁹ For Table 4.1, we run a bivariate regression for couples. The dependent variable is the sum of inheritances from parents and parents-in-law; one independent variable is a dummy that is 1 for an inheritance from the financial respondent’s parents, the other is 1

a comparison of spouses with a small sample of singles. When we compare financial respondents within couples with their spouses, the mean amounts are similar (though the spousal average is always smaller).

In the end, Table 4.1 does not contradict (H3).

Assortative Mating. If we are willing to treat positive spousal transfers as a random sample within the conditional distribution $p(j | j \neq 0)$, other interesting analysis is possible. We first derive several propositions about what we expect the data to show, and what interpretation one should put on various possible findings. Then we generate statistics from the data.

Restrict attention to households reporting a positive spousal inheritance. If (H3) is valid, the conditional distribution of spousal inheritances — i.e., the distribution for strictly positive inheritances — has density (3), $p^*(j)$, $j \geq 1$, and mean m^* , as in (4). Then

Proposition 4: *Maintain hypothesis (H3). If the distribution of inheritances reflects assortative mating, then $m^{c|SP>0}$, the mean inheritance for couples for which the financial respondent's spouse has a positive inheritance, is*

$$m^{c|SP>0} = 2 \cdot m^* .$$

Alternatively, if the distribution of inheritances reflects random mating, then

$$m^{c|SP>0} = m + m^* .$$

Proof: Suppose assortative mating. The probability that the spouse has index j is $p^*(j)$. If the spouse has index j , the household has inheritance $2 \cdot x(j)$. Let $N^{2|SP>0}$ be the number of cases with the spouse having a positive inheritance. In the sample in which all financial respondent spouses have positive inheritance, assortative mating implies $N^{2|SP>0}$ will be the number of couples who inherit. Then

$$m^{c|SP>0} = \frac{N^{2|SP>0} \cdot \sum_{j \neq 0} p^*(j) \cdot 2 \cdot x(j)}{N^{2|SP>0}} = 2 \cdot \sum_{j \neq 0} p^*(j) \cdot x(j) = 2 \cdot m^* .$$

Next, suppose random mating. That implies $p(i | j) = p(i)$. So, the probability of household outcome $(x(i), x(j))$ with $j \neq 0$ is $p(i | j) \cdot p^*(j) = p(i) \cdot p^*(j)$. Hence,

$$\begin{aligned} m^{c|SP>0} &= \frac{N^{2|SP>0} \cdot \sum_{j \neq 0} \sum_i p(i) \cdot p^*(j) \cdot [x(i) + x(j)]}{N^{2|SP>0}} = \\ &= \sum_{j \neq 0} p^*(j) \cdot \left[\sum_i p(i) \cdot x(i) + \sum_i p(i) \cdot x(j) \right] = \\ &= \sum_{j \neq 0} p^*(j) \cdot [m + x(j)] = m + m^* . \quad \blacksquare \end{aligned}$$

for inheritances from the in-laws. We allow separate error variances for parent and in-law transfers. And, for double inheritances, the errors can be correlated. (The correlation coefficients are 0.09, 0.08, and -0.02, respectively.) For couples, we report FGLS estimates.

The intuition of Proposition 4 is as follows. The fraction of couples with a positive inheritance for the spouse depends upon reporting errors. To escape the influence of the errors, we limit our attention to households reporting positive spousal sums. The mean spousal inheritance on the restricted set is m^* . With assortative mating and (H3), the total inheritance of each household is exactly twice the inheritance of the spouse. If mating is random, then on the restricted set with a positive spousal inheritance, financial-respondent inheritances recapitulate their entire original distribution. The mean spousal inheritance is m^* , but the mean financial respondent inheritance is m .

Still limiting ourselves to the set of couples with positive non-financial-respondent inheritances, we have an analog to Proposition 2:

Proposition 5: *Maintain (H3). Let $f^{FR|SP>0}$ be the fraction financial respondents with a positive inheritance, on the set with positive spousal inheritances. If mating is assortative, then*

$$f^{FR|SP>0} = 1.$$

If mating is random, then

$$f^{FR|SP>0} = f.$$

Proof: Maintain either (H3). Let $N^{2|SP>0}$ be as in the proof of Proposition 4. Suppose mating is assortative. Then a spousal index $j \neq 0$ implies a financial respondent inheritance $x(i) = x(j) > 0$. So,

$$f^{FR|SP>0} = \frac{N^{2|SP>0} \cdot \sum_{j \neq 0} p^*(j)}{N^{2|SP>0}} = \sum_{j \neq 0} p^*(j) = 1.$$

Alternatively, assume random mating. Then as in the proof of Proposition 4, household outcome (i, j) , $j \neq 0$, occurs with probability $p(i) \cdot p^*(j)$. Hence,

$$\begin{aligned} f^{FR|SP>0} &= \frac{N^{2|SP>0} \cdot \sum_{i \neq 0} \sum_{j \neq 0} p(i) \cdot p^*(j)}{N^{2|SP>0}} = \\ &= \sum_{i \neq 0} \sum_{j \neq 0} p(i) \cdot p^*(j) = \sum_{i \neq 0} p(i) \cdot \sum_{j \neq 0} p^*(j) = \sum_{i \neq 0} p(i) = f. \quad \blacksquare \end{aligned}$$

The intuition is as follows. With assortative mating, if the spousal inheritance is positive, the financial respondent's is too. With random mating, a positive spousal inheritance has no implication for the financial respondent's likelihood of a positive inheritance; hence, the probability of a positive inheritance for the financial respondent is f .

Our analysis so far has connected the distribution of inheritances to the mating pattern by tacitly assuming intentional bequests. If some, or all, bequests are accidental — as our review of the literature suggests may well be the case in practice — we need to be more careful.

Consider Section 3’s original examples. In the second scenario, parents of types A , B , and C mate assortatively, yielding parent couples

$$AA, \quad BB, \quad CC.$$

If the types are equally prevalent, each couple type has frequency $1/3$. Suppose type A individuals desire bequest $x > 0$ and other types desire 0. With intentional bequests only, couples AA leave $2 \cdot x$, and other couples leave 0.

Alternatively, suppose that each individual desires to leave nothing, but each accidentally falls into state a , with probability $1/3$, in very old age and leaves x ; falls into state b with the same probability and leaves 0; or, falls into c with probability $1/3$ and leaves nothing. Then possible estate outcomes for couples of type AA cover the set

$$\{aa, \quad ab, \quad ac, \quad ba, \quad bb, \quad bc, \quad ca, \quad cb, \quad cc\}.$$

The actual bequest outcomes are $(2 \cdot x, x, 0)$ with probabilities $1/9$, $4/9$, and $4/9$, respectively. The same outcomes and probabilities apply to couples BB and CC . So, the overall distribution of outcomes in terms of bequests is identical what happens under intentional bequests and random mating.

This is a general result: assortative mating and intentional bequeathing yields what Propositions 4-5 characterize as the outcome from “assortative mating”; any type of mating and accidental bequeathing yields what the propositions characterize as the outcome from “random mating.”

The existing literature does provide some evidence for assortative mating (Laitner [2001]), especially in the case of education. If we maintain the hypothesis that mating is assortative, evidence of a random distribution of inheritances would point to accidental bequests as being the most important.

Evidence. Our empirical analysis focuses on Proposition 5 (because the calculations are more straightforward and because Section 2 suggests that frequency data alleviates censoring problems).

The means in Table 4.2 show that the conditional frequency for married financial respondents seems distinctly higher than the conditional frequency of never-married singles. In fact, in the first two panels, the former are twice as large. The tests confirm that differences are significant: we reject “random mating” at the 1 percent level in all cases.

On the other hand, the conditional financial-respondent frequencies are a long way from 1.0. Hence, we also reject “assortative mating” in every case.

Summary. Our theoretical analysis implies that assortative mating and intentional bequest behavior leads to an assortative-mating pattern of inheritances, whereas either random mating or accidental bequest behavior leads to a random-mating pattern. The existing literature provides some independent support for assortative matching.

In terms of empirical results, our tentative conclusion is that the T tests, and the pattern of the T statistics, support the idea that accidental bequest behavior may be widespread. Nevertheless, the pattern of inheritance receipt does not seem entirely random. It seems possible that mating is, at least to a degree, assortative and that bequest behavior is, in part, intentional.

Section 5: Inter Vivos Gifts

We next briefly turn to *inter vivos* gifts.

We can apply the propositions and corollaries of Sections 3-4. Their usefulness in Sections 3-4 depended, however, on the assumption that parents bequeath equally to all of their children — an assumption that the existing literature seems to support. The literature does not necessarily argue the same for *inter vivos* gifts. In fact, some authors suggest that parents are quite willing to make unequal gifts, perhaps using them to compensate less fortunate children (recall Section 1).

Table 5.1 tests the implications of Corollary 2 on gift data. We limit our sample to cumulative gifts through 1992 (recall Section 2's discussion). Due to sample size considerations, we work with a sample of all couples and singles, as well as one with couples and singles all of whose parents are dead.

Table 5.1 outcomes resemble those of Section 3. The tests accept the idea that singles and financial respondents in couples have the same distribution of gifts, but they reject equality of gift frequencies for singles and financial-respondent spouses, and they reject equality for financial respondents and their spouses. As in Section 3, we believe that financial respondents in couples are failing to report many of their spouses' transfers. The degree of misreporting seems, in fact, more severe in the case of gifts (viz., Tables 3.4 and 5.1).

As stated, it seems possible that parents do not divide their gifts equally among their children. However, it seems an unlikely coincidence that inequality of that nature would explain the outcomes of Table 5.1.

Table 5.2 compares financial-respondent gift receipt, conditional on spousal receipt, with gift-receipt frequencies for singles. As in Section 4, assortative mating is rejected. In contrast to Section 4, however, random mating cannot be rejected.

Nevertheless, a closer look suggests that results from Sections 3-4 carry over. Comparing Tables 5.1-5.2, financial respondents in couples, conditional on wife's receipt of a gift, have 2-3 times the chance of receiving a gift as in the unconditional case. Only sample size, it seems, prevents us from rejecting random mating.

In sum, Tables 5.1-5.2 resemble 3.4 and 4.2. This is somewhat surprising. Inheritances may be either intentional or accidental, but *inter vivos* gifts must, one would imagine, be intentional. If actual mating is assortative and if gifts are intentional, we would expect to accept the lead T test in each panel of Table 5.2. The rejections that we find may then suggest that *inter vivos* gifts depend on children's liquidity-constraint problems rather than parental intent to enhance children's lifetime resources. Or, in conjunction with the evidence on gift timing in Section 2, we might conclude that the gifts reported in our data occur late in parents' lives and tend to be very similar in character to inheritances — with gifts earlier in life having simply been omitted.

6. Intentional versus Accidental Bequests

In understanding household behavior, the difference between intentional and accidental bequeathing seems important. This section attempts to assess what we can say about

the division of actual inheritances between the two categories on the basis of our analysis so far.

Consider Table 4.2, top panel. We now develop an equation for $F = 0.4415$ = the frequency of financial-respondent inheritance receipt, conditional on receipt by the financial respondent's spouse. As before, let f be the unconditional frequency of inheritance receipt for an individual. Section 4 argues that we cannot measure f from financial-respondent spouse data. But, we can use financial respondent or never-married singles data. Table 4.2 finds $f = 0.2293$ in the latter case, for instance.

Let z be the fraction of (positive) financial-respondent-spouse inheritances that come from intentional bequests. Then of the fraction f of positive spousal inheritances, $z \cdot f$ come from intentional parental transfers, and $(1 - z) \cdot f$ from accidental parental transfers.

Assume that mating is strongly assortative. Think about financial respondents whose spouses have positive inheritances. A fraction z of the spouses have intentional parental bequests; so, a fraction z of the conditional financial respondent group does as well. For the remaining fraction of the latter group, $1 - z$, a share $(1 - z) \cdot f$ receive an accidental bequest. Thus,

$$z + (1 - z)^2 \cdot f = F. \tag{5}$$

We have

$$\begin{aligned} z + (1 - z)^2 \cdot f = F &\iff \\ z + (1 - 2 \cdot z + z^2) \cdot f = F &\iff \\ f \cdot z^2 + (1 - 2 \cdot f) \cdot z - (F - f) = 0. & \end{aligned} \tag{6}$$

A graph shows (6) has a unique non-negative root z whenever $F \geq f$. If $F = f$, the root is $z = 0$. If $F = 1$, the root is $z = 1$. The latter two special cases are exactly consistent with Proposition 5.

For $F = 0.4415$ and $f = 0.2293$, the unique non-negative root is $z = 0.3423$. In other words, if all matching is assortative, our findings imply that slightly more than 1/3 of HRS inheritances come from intentional parental bequests and 2/3 from accidental bequests.

The frequencies above apply to individuals. For never-married-singles, about 7.5 percent inherit from intentional bequests and about 15 percent from accidental bequests — for a total of about 22.5 percent. The same frequencies apply, separately, to married men and married women. Think about a married couple as a unit, however. About 7.5 percent of couples will receive one or more inheritances from intentional bequests. In our simple model, in fact, in each such case both spouses will receive an intentional transfer. Accidental bequests arrive randomly. Thus, roughly 30 percent of couples will receive 1 or more accidental bequests — with usually only one spouse inheriting in that case. The two types of inheritance are mutually exclusive; so, about 37.5 percent of couples should have at least 1 positive inheritance. We cannot compare the last with any of our tables, since we have argued that spousal inheritances tend to be severely under-reported.

7. Conclusion

In examining HRS data 1992-2008 on private intergenerational transfer receipt, Section 3 finds strong evidence of under-reporting of financial-respondent spousal inheritances. We recommend disregarding the spousal totals. Careful treatment of this issue can substantially raise one's assessment of the mean inheritance of couples.

Section 4 presents evidence that the distribution of financial respondent inheritances, conditional on a positive spousal inheritance, remains valid. The conditional distribution can be very useful. In examining it, we find that we can reject either purely assortative or purely random mating. If we maintain the hypothesis that marital matching is, in fact, assortative, the interpretation of our finding is that actual inheritances represent a mixture of intentional and accidental bequests, with somewhat greater evidence of the latter. Section 6 carries the analysis further, showing that under the maintained hypothesis of assortative matching, about one-third of individuals' inheritances seem to originate from intentional bequests, and two-thirds from accidental bequests.

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**Table 2.1. 1992 HRS Cohort: Cumulative Lifetime Transfers
Received through 1992; Unweighted Data**

Type of Transfer ^a	Obs.	Mean	Standard Deviation	Minimum	Maximum	Censored Obs.
Current Dollars; Real Interest Rate = 0						
Sample: All HRS households; Cumulative through 1992						
Inheritance ^b	7702	7750.31	42185.54	1.00	1000000.00	239
Gift	7702	2521.74	20649.67	1.00	1015001.00	80
Life Insurance ^c	7702	154.72	2141.16	1.00	90000.00	4
Total Transfer	7702	10426.78	51168.09	1.00	1815001.00	313
Sample: Recipient households with positive amount; Cumulative through 1992						
Inheritance ^b	1400	50458.93	97114.88	1.00	1000000.00	239
Gift	518	43744.29	74790.36	1.00	1015001.00	80
Life Insurance ^c	69	18333.40	14489.92	1.00	90000.00	4
Total Transfer	1853	50730.92	103411.38	1.00	1815001.00	313
2005 Dollars; ^d Real Interest Rate = 0						
Sample: All HRS households; Cumulative through 1992						
Inheritance ^b	7702	15729.43	93170.74	1.30	2945508.03	239
Gift	7702	5382.05	50673.17	1.30	3127202.82	80
Life Insurance ^c	7702	375.33	5603.47	1.39	283768.43	4
Total Transfer	7702	21486.81	118845.36	1.30	5339898.23	313
Sample: Recipient households with positive amount; Cumulative through 1992						
Inheritance ^b	1400	102407.51	218266.69	1.30	2945508.03	239
Gift	518	93361.53	190601.21	1.30	3127202.82	80
Life Insurance ^c	69	44473.35	41944.42	1.39	283768.43	4
Total Transfer	1853	104542.88	245025.91	1.30	5339898.23	313
2005 Dollars; ^d Real Interest Rate = 0.03						
Sample: All HRS households; Cumulative through 1992						
Inheritance ^b	7702	33823.78	221239.02	1.91	6941282.63	239
Gift	7702	11836.15	120813.04	1.91	7572188.63	80
Life Insurance ^c	7702	926.07	17450.27	2.16	1172602.63	4
Total Transfer	7702	46586.00	282306.66	1.91	12634675.71	313
Sample: Recipient households with positive amount; Cumulative through 1992						
Inheritance ^b	1400	219469.88	526168.37	1.91	6941282.63	239
Gift	518	205319.93	462022.58	1.91	7572188.63	80
Life Insurance ^c	69	109732.20	155379.50	2.16	1172602.63	4
Total Transfer	1853	226232.90	588545.77	1.91	12634675.71	313

Source: see text.

a. Transfers from spouse/ex spouse or children excluded all cases.

b. Includes trusts.

c. Beneficiary life insurance settlements.

d. NIPA PCE deflator.

**Table 2.2. 1992 HRS Cohort: Cumulative Lifetime Transfers
through 1992; 1992 Households Weights**

Type of Transfer ^a	Obs.	Mean	Standard Deviation	Minimum	Maximum	Censored Obs.
Current Dollars; Real Interest Rate = 0						
Sample: All HRS households; Cumulative through 1992						
Inheritance ^b	7585	9132.31	46193.01	1.00	1000000.00	253.21
Gift	7585	3028.02	23572.16	1.00	1015001.00	82.07
Life Insurance ^c	7585	170.44	2280.97	1.00	90000.00	4.06
Total Transfer	7585	12330.76	65122.82	1.00	1815001.00	327.56
Sample: Recipient households with positive amount; Cumulative through 1992						
Inheritance ^b	1538.66	52858.88	100196.38	1.00	1000000.00	253.21
Gift	566.42	46642.32	80775.52	1.00	1015001.00	82.07
Life Insurance ^c	73.10	18725.22	14971.79	1.00	90000.00	4.06
Total Transfer	2019.49	53663.72	127431.37	1.00	1815001.00	327.56
2005 Dollars; ^d Real Interest Rate = 0						
Sample: All HRS households; Cumulative through 1992						
Inheritance ^b	7585	18418.50	101709.11	1.30	2945508.03	253.21
Gift	7585	6305.04	56615.18	1.30	3127202.82	82.07
Life Insurance ^c	7585	424.71	5708.20	1.39	283768.43	4.06
Total Transfer	7585	25148.25	149326.55	1.30	5339898.23	327.56
Sample: Recipient households with positive amount; Cumulative through 1992						
Inheritance ^b	1538.66	106608.49	224665.98	1.30	2945508.03	253.21
Gift	566.42	97120.30	201377.26	1.30	3127202.82	82.07
Life Insurance ^c	73.10	46659.47	37715.07	1.39	283768.43	4.06
Total Transfer	2019.49	109445.67	296339.60	1.30	5339898.23	327.56
2005 Dollars; ^d Real Interest Rate = 0.03						
Sample: All HRS households; Cumulative through 1992						
Inheritance ^b	7585	39455.62	240210.50	1.91	6941282.63	253.21
Gift	7585	13635.74	133094.00	1.91	7572188.63	82.07
Life Insurance ^c	7585	1043.38	16492.51	2.16	1172602.63	4.06
Total Transfer	7585	54134.75	350271.81	1.91	12634675.71	327.56
Sample: Recipient households with positive amount; Cumulative through 1992						
Inheritance ^b	1538.66	227885.70	538819.42	1.91	6941282.63	253.21
Gift	566.42	210039.45	481255.58	1.91	7572188.63	82.07
Life Insurance ^c	73.10	114629.11	129856.81	2.16	1172602.63	4.06
Total Transfer	2019.49	235261.43	700415.25	1.91	12634675.71	327.56

Source: see text.

a. Transfers from spouse/ex spouse or children excluded all cases.

b. Includes trusts.

c. Beneficiary life insurance settlements.

d. NIPA PCE deflator.

Table 2.3. 1992 HRS Cohort Inheritances and Trusts: Cumulative Lifetime Transfers Received through 1992; 2005 Dollars, Real Interest Rate = 0.03, Recipient Households with Positive Amounts; Unweighted Data

Type of Transfer ^a	Obs.	Mean	Standard Deviation	Minimum	Maximum	Censored Obs.
Inheritance less Trusts	1333	192225.08	438342.71	1.91	6941282.63	216
Transferred Trust Accounts	98	572035.65	1007165.79	1.91	5195563.72	29
Total Inheritance/Trust	1400	219469.88	526168.37	1.91	6941282.63	239

Source: see text.

a. Transfers from spouse/ex spouse or children excluded all cases.

**Table 2.4. The Timing of Inheritances vs Gifts for 1992 HRS Cohort:
Cumulative Lifetime Transfers Received through 1992; Unweighted Data**

Type of Transfer ^a	1950s	1960s	1970s	1980-92	Total
Frequency of Receipt					
Inheritance/Trust	41	135	397	1132	1705
Gifts	14	53	123	467	657
Fraction of Cumulative Total					
Inheritance/Trust	0.024	0.079	0.233	0.664	1.000
Gifts	0.021	0.081	0.187	0.711	1.000

Source: see text. Note frequencies include multiple transfers per recipient — see text.

**Table 2.5. 1992 HRS Cohort: Cumulative Lifetime Transfers
Received through 2008; 1992 Household Weights**

Type of Transfer ^a	Obs.	Mean	Standard Deviation	Minimum	Maximum	Censored Obs.
Current Dollars; Real Interest Rate = 0						
Sample: All HRS households; Cumulative through 2008						
Inheritance ^b	7585	28947.89	121960.18	1.00	5114500.00	528.63
Gift	7585	3255.72	24388.48	1.00	1015001.00	87.66
Life Insurance ^c	7585	170.44	2280.97	1.00	90000.00	4.06
Total Transfer	7585	32374.05	147944.12	1.00	5114500.00	604.71
Sample: Recipient households with positive amount; Cumulative through 2008						
Inheritance ^b	2701.92	91294.30	203021.81	1.00	5114500.00	528.63
Gift	609.23	46366.52	80448.42	1.00	1015001.00	87.66
Life Insurance ^c	73.10	18725.22	14971.79	1.00	90000.00	4.06
Total Transfer	3047.82	90314.44	236277.33	1.00	5114500.00	604.71
2005 Dollars; ^d Real Interest Rate = 0						
Sample: All HRS households; Cumulative through 2008						
Inheritance ^b	7585	40051.75	160320.38	0.92	5133858.85	528.63
Gift	7585	6550.82	57157.77	1.06	3127202.82	87.66
Life Insurance ^c	7585	424.71	5708.20	1.39	283768.43	4.06
Total Transfer	7585	47027.27	210787.13	0.92	5344017.78	604.71
Sample: Recipient households with positive amount; Cumulative through 2008						
Inheritance ^b	2701.92	126313.07	264884.19	0.92	5133858.85	528.63
Gift	609.23	93293.83	196047.77	1.06	3127202.82	87.66
Life Insurance ^c	73.10	46659.47	37715.07	1.39	283768.43	4.06
Total Transfer	3047.82	131192.79	336018.78	0.92	5344017.78	604.71
2005 Dollars; ^d Real Interest Rate = 0.03						
Sample: All HRS households; Cumulative through 2008						
Inheritance ^b	7585	64254.17	282246.43	0.84	6941282.63	528.63
Gift	7585	13913.35	133516.46	1.12	7572188.63	87.66
Life Insurance ^c	7585	1043.38	16492.51	2.16	1172602.63	4.06
Total Transfer	7585	79210.90	395172.56	0.84	12638918.84	604.71
Sample: Recipient households with positive amount; Cumulative through 2008						
Inheritance ^b	2701.92	202382.60	472187.94	0.84	6941282.63	528.63
Gift	609.23	198147.71	466233.37	1.12	7572188.63	87.66
Life Insurance ^c	73.10	114629.11	129856.81	2.16	1172602.63	4.06
Total Transfer	3047.82	220726.35	635545.15	0.84	12638918.84	604.71

Source: see text.

- a. Transfers from spouse/ex spouse or children excluded all cases.
- b. Includes trusts.
- c. Beneficiary life insurance settlements.
- d. NIPA PCE deflator.

Table 2.6. 1992 HRS Cohort: Parent vs In-Law-Parent Benefactors; Unweighted Data

Type of Transfer ^a	Transfers From Parents	From In-Law Parents	Others ^c	Parents ÷ In-Law Parents	Transfers per Household with Positive Amount
All 1992-Cohort HRS Households: Sample=7702					
Cumulative through 1992					
Inheritance/Trust	972	200	434	4.86	1.15
Total Transfer ^b	1264	282	589	4.48	1.15
Cumulative through 2008					
Inheritance/Trust	1616	596	856	2.71	1.26
1992-Cohort HRS Married Couples: Sample=5009					
Cumulative through 1992					
Inheritance/Trust	682	192	315	3.55	1.17
Total Transfer ^b	896	269	424	3.33	1.17
Cumulative through 2008					
Inheritance/Trust	1141	563	637	2.03	1.29
1992-Cohort HRS Never Married Singles: Sample=356					
Cumulative through 1992					
Inheritance/Trust	43	0	22	NA	1.12
Total Transfer ^b	61	0	33	NA	1.12
Cumulative through 2008					
Inheritance/Trust	75	0	41	NA	1.21
1992-Cohort HRS Married Couples with All Parents Dead 1992: Sample=1250					
Cumulative through 1992					
Inheritance/Trust	270	90	76	3.00	1.24
Total Transfer ^b	316	105	109	3.01	1.23
Cumulative through 2008					
Inheritance/Trust	288	107	155	2.69	1.29
1992-Cohort HRS Never Married Singles with All Parents Dead 1992: Sample=187					
Cumulative through 1992					
Inheritance/Trust	34	0	14	NA	1.14
Total Transfer ^b	43	0	22	NA	1.12
Cumulative through 2008					
Inheritance/Trust	35	0	21	NA	1.22

Source: see text.

- a. Transfers from spouse/ex spouse or children excluded all cases.
- b. Includes inheritances/trusts, gifts, and life insurance. Not useful after 1992 — see text.
- c. Includes transfers from “others” and transfers without benefactor identified.

**Table 3.1. Results for Proposition 1:
Inheritance/Trust Amounts for Couples and Singles^{a, b}**

Category	No. Obs.	Mean	Std. Error
HRS Data through 1992: Households with All Parents Dead 1992			
Couples	1243	59610.98	7291.63
Singles	187	68219.04	15833.91
T Statistic for $m^{Couple} - 2 \cdot m^{Single}$:		-2.36	Outcome ^c : Reject**/Accept***
HRS Data through 2008: Households with All Parents Dead 1992			
Couples	1243	66318.84	7418.58
Singles	187	70501.18	15885.87
T Statistic for $m^{Couple} - 2 \cdot m^{Single}$:		-2.29	Outcome: Reject**/Accept***
HRS Data through 2008			
Couples	4984	73346.56	4231.55
Singles	356	61520.00	10061.94
T Statistic for $m^{Couple} - 2 \cdot m^{Single}$:		-2.42	Outcome: Reject**/Accept***

Source: see text.

- a. Transfers from spouse/ex spouse or children excluded all cases.
- b. Includes amounts assigned to specific spouse or to "others."
- c. Outcomes: Accept**, accept at 5% significance level;
Reject**/Accept***, reject at 5% significance level but accept at 1% level;
and, Reject***, reject at 1% significance level.

Table 3.2. Results for Corollary 1: Inheritance/Trust Amounts for Financial Respondents, Financial-Respondent Spouses, and Singles^{a, b}

Category	No. Obs.	Mean	Std. Error
HRS Data through 1992: Households with All Parents Dead 1992			
Financial Respondent	1243	39512.15	4974.41
Fin. Respondent's Spouse	1243	13458.52	4363.52
Singles	187	58776.38	14661.89
T Statistic for $m^{Fin\ Resp} - m^{Single}$:		-1.24	Outcome ^c : Accept**
T Statistic for $m^{Spouse} - m^{Single}$:		-2.96	Outcome: Reject***
T Statistic for $m^{Fin\ Resp} - m^{Spouse}$:		3.85	Outcome: Reject***
HRS Data through 2008: Households with All Parents Dead 1992			
Financial Respondent	1243	41014.07	5003.15
Fin. Respondent's Spouse	1243	13938.22	4365.59
Singles	187	58897.90	14659.63
T Statistic for $m^{Fin\ Resp} - m^{Single}$:		-1.15	Outcome: Accept**
T Statistic for $m^{Spouse} - m^{Single}$:		-2.94	Outcome: Reject***
T Statistic for $m^{Fin\ Resp} - m^{Spouse}$:		3.98	Outcome: Reject***
HRS Data through 2008			
Financial Respondent	4984	42776.07	3246.78
Fin. Respondent's Spouse	4984	16712.16	1987.06
Singles	356	51727.78	9420.85
T Statistic for $m^{Fin\ Resp} - m^{Single}$:		-0.90	Outcome: Accept**
T Statistic for $m^{Spouse} - m^{Single}$:		-3.64	Outcome: Reject***
T Statistic for $m^{Fin\ Resp} - m^{Spouse}$:		6.78	Outcome: Reject***

Source: see text.

- a. Transfers from spouse/ex spouse or children excluded all cases.
- b. Includes amounts assigned to specific spouse; excludes amounts assigned to "others."
- c. Outcomes: Accept**, accept at 5% significance level; Reject**/Accept***, reject at 5% significance level but accept at 1% level; and, Reject***, reject at 1% significance level.

**Table 3.3. Results for Proposition 2:
Inheritance/Trust Frequencies for Couples and Singles^{a, b}**

Category	No. Obs.	Mean	Std. Error
HRS Data through 1992: Households with All Parents Dead 1992			
Couples	1243	0.3117	0.0131
Singles	187	0.2791	0.0329
T Statistic for $f^{Mar\ Inds} - 2 \cdot f^{Single}$:		-3.68	Outcome ^c : Reject***
HRS Data through 2008: Households with All Parents Dead 1992			
Couples	1243	0.3716	0.0137
Singles	187	0.3033	0.0337
T Statistic for $f^{Mar\ Inds} - 2 \cdot f^{Spouse}$:		-3.42	Outcome: Reject***
HRS Data through 2008			
Couples	4984	0.3964	0.0069
Singles	356	0.3279	0.0249
T Statistic for $f^{Mar\ Inds} - 2 \cdot f^{Spouse}$:		-5.16	Outcome: Reject***

Source: see text.

- a. Transfers from spouse/ex spouse or children excluded all cases.
- b. Includes amounts assigned to specific spouse or to "others."
- c. Outcomes: Accept**, accept at 5% significance level;
Reject**/Accept***, reject at 5% significance level but accept at 1% level;
and, Reject***, reject at 1% significance level.

Table 3.4. Results for Corollary 2: Inheritance/Trust Frequencies for Financial Respondents, Financial-Respondent Spouses, and Singles^{a, b}

Category	No. Obs.	Mean	Std. Error
HRS Data through 1992: Households with All Parents Dead 1992			
Financial Respondent	1243	0.2365	0.0120
Fin. Respondent's Spouse	1243	0.0842	0.0079
Singles	187	0.2293	0.0308
T Statistic for $f^{Fin\ Resp} - f^{Single}$: 0.22		Outcome: Accept**	
T Statistic for $f^{Spouse} - f^{Single}$: -4.56		Outcome: Reject***	
T Statistic for $f^{Fin\ Resp} - f^{Spouse}$: 9.88		Outcome: Reject***	
HRS Data through 2008: Households with All Parents Dead 1992			
Financial Respondent	1243	0.2508	0.0123
Fin. Respondent's Spouse	1243	0.0977	0.0084
Singles	187	0.2367	0.0312
T Statistic for $f^{Fin\ Resp} - f^{Single}$: 0.42		Outcome: Accept**	
T Statistic for $f^{Spouse} - f^{Single}$: -4.31		Outcome: Reject***	
T Statistic for $f^{Fin\ Resp} - f^{Spouse}$: 9.53		Outcome: Reject***	
HRS Data through 2008			
Financial Respondent	4984	0.2508	0.0061
Fin. Respondent's Spouse	4984	0.1240	0.0047
Singles	356	0.2531	0.0231
T Statistic for $f^{Fin\ Resp} - f^{Single}$: -0.09		Outcome: Accept**	
T Statistic for $f^{Spouse} - f^{Single}$: -5.48		Outcome: Reject***	
T Statistic for $f^{Fin\ Resp} - f^{Spouse}$: 15.63		Outcome: Reject***	

Source: see text.

- a. Transfers from spouse/ex spouse or children excluded all cases.
- b. Includes amounts assigned to specific spouse; excludes amounts assigned to "others."
- c. Outcomes: Accept**, accept at 5% significance level;
Reject**/Accept***, reject at 5% significance level but accept at 1% level;
and, Reject***, reject at 1% significance level.

Table 4.1. Results for Proposition 3: Inheritance/Trust Amounts, Conditional on a Positive Amount, for Financial Respondents; Financial-Respondent Spouses; and, Singles^{a, b}

Category	No. Obs.	Mean	Std. Error
HRS Data through 1992: Households with All Parents Dead 1992			
Financial Respondent	304	195392.60	22178.52
Fin. Respondent's Spouse	304	193292.67	74113.21
Singles	25	329736.43	74991.56
T Statistic for $m^{*Fin\ Resp} - m^{*Single}$:		-1.72	Outcome ^c : Accept**
T Statistic for $m^{*Spouse} - m^{*Single}$:		-1.29	Outcome: Accept**
T Statistic for $m^{*Fin\ Resp} - m^{*Spouse}$:		0.03	Outcome: Accept**
HRS Data through 2008: Households with All Parents Dead 1992			
Financial Respondent	339	189986.27	20821.17
Fin. Respondent's Spouse	339	167517.82	61614.71
Singles	26	317216.47	73032.44
T Statistic for $m^{*Fin\ Resp} - m^{*Single}$:		-1.68	Outcome: Accept**
T Statistic for $m^{*Spouse} - m^{*Single}$:		-1.57	Outcome: Accept**
T Statistic for $m^{*Fin\ Resp} - m^{*Spouse}$:		0.34	Outcome: Accept**
HRS Data through 2008			
Financial Respondent	1490	194690.99	14162.42
Fin. Respondent's Spouse	1490	151591.26	19042.10
Singles	57	250786.52	42851.89
T Statistic for $m^{*Fin\ Resp} - m^{*Single}$:		-1.24	Outcome: Accept**
T Statistic for $m^{*Spouse} - m^{*Single}$:		-2.11	Outcome: Reject**/Accept***
T Statistic for $m^{*Fin\ Resp} - m^{*Spouse}$:		1.82	Outcome: Accept**

Source: see text.

- a. Transfers from spouse/ex spouse or children excluded all cases.
- b. Includes amounts assigned to specific spouse; excludes amounts assigned to "others."
- c. Outcomes: Accept**, accept at 5% significance level; Reject**/Accept***, reject at 5% significance level but accept at 1% level; and, Reject***, reject at 1% significance level.

Table 4.2. Results for Proposition 5: Inheritance/Trust Frequencies for Financial Respondents, Conditional on Positive Transfers to their Spouse, and for Singles^{a, b}

Category	No. Obs.	Mean	Std. Error
HRS Data through 1992: Households with All Parents Dead 1992			
Financial Respondent (Conditional on Spouse > 0)	75	0.4415	0.0577
Singles (Unconditional)	187	0.2293	0.0308
Test of Assortative Mating: $T Stat = \frac{f^{FR SP>0} - 1}{\sqrt{(Var^{FR SP>0})}}$		= -9.68	Outcome ^c : Reject***
Test of Random Mating: $T Stat = \frac{f^{FR SP>0} - f^S}{\sqrt{(Var^{FR SP>0} + Var^S)}}$		= 3.24	Outcome: Reject***
HRS Data through 2008: Households with All Parents Dead 1992			
Financial Respondent (Conditional on Spouse > 0)	91	0.4685	0.0526
Singles (Unconditional)	187	0.2367	0.0312
Test of Assortative Mating: $T Stat = \frac{f^{FR SP>0} - 1}{\sqrt{(Var^{FR SP>0})}}$		= -10.10	Outcome: Reject***
Test of Random Mating: $T Stat = \frac{f^{FR SP>0} - f^S}{\sqrt{(Var^{FR SP>0} + Var^S)}}$		= 3.79	Outcome: Reject***
HRS Data through 2008			
Financial Respondent (Conditional on Spouse > 0)	496	0.3809	0.0218
Singles (Unconditional)	356	0.2531	0.0231
Test of Assortative Mating: $T Stat = \frac{f^{FR SP>0} - 1}{\sqrt{(Var^{FR SP>0})}}$		= -28.37	Outcome: Reject***
Test of Random Mating: $T Stat = \frac{f^{FR SP>0} - f^S}{\sqrt{(Var^{FR SP>0} + Var^S)}}$		= 4.02	Outcome: Reject***

Source: see text.

- a. Transfers from spouse/ex spouse or children excluded all cases.
- b. Includes amounts assigned to specific spouse; excludes amounts assigned to "others."
- c. Outcomes: Accept**, accept at 5% significance level; Reject**/Accept***, reject at 5% significance level but accept at 1% level; and, Reject***, reject at 1% significance level.

Table 5.1. Gift Data: Corollary-2 Gift-Receipt Frequencies for Financial Respondents, Financial-Respondent Spouses, and Singles^{a, b}

Category	No. Obs.	Mean	Std. Error
HRS Data through 1992: Households with All Parents Dead 1992			
Financial Respondent	1243	0.0460	0.0059
Fin. Respondent's Spouse	1243	0.0107	0.0029
Singles	187	0.0735	0.0191
T Statistic for $f^{Fin\ Resp} - f^{Single}$:		-1.37	Outcome: Accept**
T Statistic for $f^{Spouse} - f^{Single}$:		-3.24	Outcome: Reject***
T Statistic for $f^{Fin\ Resp} - f^{Spouse}$:		5.31	Outcome: Reject***
HRS Data through 1992: All Households			
Financial Respondent	4984	0.0535	0.0032
Fin. Respondent's Spouse	4984	0.0163	0.0018
Singles	356	0.0675	0.0133
T Statistic for $f^{Fin\ Resp} - f^{Single}$:		-1.02	Outcome: Accept**
T Statistic for $f^{Spouse} - f^{Single}$:		-3.81	Outcome: Reject***
T Statistic for $f^{Fin\ Resp} - f^{Spouse}$:		10.08	Outcome: Reject***

Source: see text.

- a. Transfers from spouse/ex spouse or children excluded all cases.
- b. Includes amounts assigned to specific spouse; excludes amounts assigned to "others."
- c. Outcomes: Accept**, accept at 5% significance level; Reject**/Accept***, reject at 5% significance level but accept at 1% level; and, Reject***, reject at 1% significance level.

Table 5.2. Gift Data: Proposition-5 Gift-Receipt Frequencies for Financial Respondents, Conditional on Positive Transfers to their Spouse, and for Singles^{a, b}

Category	No. Obs.	Mean	Std. Error
HRS Data through 1992: Households with All Parents Dead 1992			
Financial Respondent (Conditional on Spouse > 0)	10	0.1171	0.1072
Singles (Unconditional)	187	0.0735	0.0191
Test Assortative Mating: $T Stat = \frac{f^{FR SP>0} - 1}{\sqrt{(Var^{FR SP>0})}}$		= -8.24	Outcome ^c : Reject***
Test Random Mating: $T Stat = \frac{f^{FR SP>0} - f^S}{\sqrt{(Var^{FR SP>0} + Var^S)}}$		= 0.40	Outcome: Accept**
HRS Data through 1992: All Households			
Financial Respondent (Conditional on Spouse > 0)	63	0.1048	0.0389
Singles (Unconditional)	356	0.0675	0.0133
Test Assortative Mating: $T Stat = \frac{f^{FR SP>0} - 1}{\sqrt{(Var^{FR SP>0})}}$		= -23.01	Outcome: Reject***
Test Random Mating: $T Stat = \frac{f^{FR SP>0} - f^S}{\sqrt{(Var^{FR SP>0} + Var^S)}}$		= 0.91	Outcome: Accept**

Source: see text.

- a. Transfers from spouse/ex spouse or children excluded all cases.
- b. Includes amounts assigned to specific spouse; excludes amounts assigned to "others."
- c. Outcomes: Accept**, accept at 5% significance level;
Reject**/Accept***, reject at 5% significance level but accept at 1% level;
and, Reject***, reject at 1% significance level.